

9-18-1997

# Washington University Record, September 18, 1997

Follow this and additional works at: <http://digitalcommons.wustl.edu/record>

---

## Recommended Citation

"Washington University Record, September 18, 1997" (1997). *Washington University Record*. Book 768.  
<http://digitalcommons.wustl.edu/record/768>

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact [engeszer@wustl.edu](mailto:engeszer@wustl.edu).





Washington University kicked off its 1997 United Way Campaign with a breakfast at the Whittemore House Sept. 10. Helping with the goal to raise \$360,000 are (standing from left) Clarence C. Barksdale, campaign chair; Ann Prenatt, director of employee relations and human resource management; Mark S. Wrighton, chancellor; (seated from left) Richard Jouett, director of training and human resource management; Karen Ruder, administrative assistant in housing and residential life; and Margaret McClelland, work/grant application processor in the psychology department in Arts and Sciences.

## Kick off University sets \$360,000 goal for United Way

A local tradition of caring and sharing continues — and with it comes an altruistic dare.

Just under way is the annual fund drive for the United Way of Greater St. Louis, a campaign in which Washington University faculty and staff have participated since the campaign's inception nearly 30 years ago.

Also part of the tradition is increasing the level of generosity. Last year, Washington University pledged \$343,000, bettering its \$325,000 goal. This year, the bar has been raised to \$360,000, according to Clarence C. Barksdale, the University's United Way Campaign coordinator and vice chairman of the Board of Trustees.

"Our goal continues to be not only

increasing our dollar amount but the percentage of Washington University staff and faculty participating in the drive,"



Barksdale said. "We met last year's participation goal of 22 percent — but we'd like to see that rise significantly. We're good at what we do at Washington Uni-

versity, and I'd like to see us be good at this, too."

United Way contributions benefit more than 140 agencies serving greater St. Louis. One out of three people in the Missouri and Illinois portions of greater St. Louis directly benefits from these contributions. Last year, the local organization allocated 92 cents of every dollar donated to support programs and services in greater St. Louis.

For more information, on the Hilltop Campus, call Blanche Johnson at (314) 935-6126 or Ann Prenatt at (314) 935-8046; on the Medical Campus, call Pat Gunn at (314) 362-6802 or Mabel L. Purkerson at (314) 362-4234; and on the West Campus, call Tom Eschen at (314) 935-4349 or Barbara Feiner at (314) 935-9018.

## New models for pediatric space design help children cope

Children's hospitals and pediatricians' offices across the country are jumping on a "make 'em happy" design trend that is replacing walls of sterile white and hospital green with carnival-like colors and 8-foot-tall caricatures of Barney the Dinosaur.

Now, a child development expert at Washington University is raising serious questions about how well the latest pediatric circus decor is meeting the needs of sick children, especially those dealing with traumatic life-and-death illnesses.

"Imagine for a moment a child facing a mirror for the first time after a severe facial burn," writes Rebecca Eder, Ph.D., adjunct assistant professor of psychology in Arts and Sciences, in a recent journal article. "Now, place that child in one of our design award-winning 'happy' hospital settings with its bright colors and

patterns. The environment is cheerful; the child is not. The cheerful, carnival-like environment is at best insensitive and at worst harmful to the present reality of the child who is ill, by suggesting denial of the problem at hand as an appropriate response. The happy-go-lucky setting is at extreme conflict with the inner needs of the parent and child to cope with the reality at hand."

Eder has spent more than a dozen years researching the world view of young children as part of her specialization in mental health and child development. Her position paper offering new models for pediatric space design appeared in *Child Health Design*, a journal of the Association for the Care of Children's Health, and more recently in the spring 1997 newsletter of *The Society for the Arts in Healthcare*.

Eder began examining the latest

trends for pediatric space design while planning a renovation of her offices at St. Louis Children's Hospital, where she is director of the Department of Psychology. She is dismayed at the lack of thought behind pediatric spaces at some of the nation's top child health facilities.

"A lot of the people who normally design medical spaces for kids don't have any training or expertise in child development or child psychology," Eder said. "Our view is that certain decisions people are making in design and color choices may not have the impact that people want them to have."

Eder questions if it is realistic or fair to send sick kids the message that we expect them to be happy.

"I obviously have a problem with the idea that the only acceptable emotion here is to be happy," Eder said. "If a

Continued on page 6

## Research grant funds network on family, economy

Washington University is coordinating the formation and activities of a research network on the future of families in today's economy, thanks to a \$405,000 planning grant from the John D. and Catherine T. MacArthur Foundation.

Nine outstanding scholars in economics, developmental psychology, public policy and sociology from major research universities throughout the United States are included in the network, a pilot project that focuses on issues affecting the well-being of families.

"We're pleased to receive this grant because this project has the potential to produce pioneering research with very positive practical implications," said Chancellor Mark S. Wrighton. "The results could be public policy that's more supportive of families."

Co-chairing the project, called The Network on the Family and the Economy, are Robert A. Pollak, Ph.D., the Hernreich Distinguished Professor of Economics in Arts and Sciences and in the John M. Olin School of Business at Washington University, and Nancy Folbre, Ph.D., professor of economics, University of Massachusetts, Amherst. Other members are Jeanne Brooks-Gunn, Ph.D., the Virginia and Leonard Marx Professor for Child Development and Education, Teachers College, Columbia University; P. Lindsay Chase-Lansdale, Ph.D., associate professor of public policy, Irving B. Harris Graduate School of Public Policy Studies, University of Chicago;

Greg Duncan, Ph.D., professor of education and social policy, Institute for Policy Research, Northwestern University; Paula England, Ph.D., professor of sociology, University of Arizona; Shelly Lundberg, Ph.D., professor of economics, University of Washington; Sarah McLanahan, Ph.D., professor of sociology and public affairs and director of the Bendheim-Thoman Center for Research on Child Wellbeing, Princeton University; and Timothy Smeeding, Ph.D., professor of economics and director of the Center for Policy Research at the Maxwell School, Syracuse University.

The network will explore issues such as marriage and divorce, family violence and family members' use of time, as well as the role of families and communities in fostering successful child development.

"These issues don't fit into one neat box," Pollak said. "They cross many disciplines, and the network reflects that. It offers synergy among diverse perspectives — an innovative way to look at

Continued on page 8

### In this issue ...

#### Powerful buckyballs ..... 2

Molecules the shape of soccerballs shield nerve cells from many types of damage

#### Trailblazer ..... 3

M'Liss A. Hudson, M.D., associate professor in urologic surgery, is one of the few women in her field

#### Celebrating history ..... 6

"Vienna Fest 1997" launches fall events to honor significant anniversaries of two composers



# Medical Update

## Buckyballs fight many different types of nerve damage

Washington University researchers have found that molecules the shape of soccer balls shield nerve cells from many different types of damage. These buckyballs also delayed symptoms and death in a mouse model of amyotrophic lateral sclerosis (ALS), or Lou Gehrig's disease.

The work, published in the Aug. 19 Proceedings of the National Academy of Sciences, suggests that buckyballs might lessen the aftereffects of stroke, head trauma and spinal cord injury, according to lead author Laura L. Dugan, M.D. Perhaps they also could be tested against Alzheimer's, Down syndrome and other neurodegenerative diseases, she said.

"These molecules protect nerve cells from a much wider range of harmful

events than any other compounds we've tested," said Dugan, assistant professor of neurology and of medicine. "And to our knowledge, this is the first demonstration that buckyballs can act as neuroprotective drugs in living animals."

Buckyballs — buckminsterfullerenes — are hollow spheres of 60 carbon atoms. Their architecture resembles that of architect R. Buckminster Fuller's geodesic domes, hence the name. Because of their unique chemical structure, they can mop up huge quantities of highly reactive chemicals called free radicals.

Unmodified buckyballs are useless for medical research because they can dissolve only in harmful organic solvents, such as benzene. But Tien-Sung Lin,

Ph.D., professor of chemistry, suggested a way to make buckyballs water soluble and biologically useful.

In collaboration with Lin, Tien-Yau Luh, Ph.D., a chemistry professor at National Taiwan University, added side chains to the molecules. Buckyballs with carboxyl side chains — one carbon, two oxygens and one hydrogen — were completely water soluble, Luh determined.



Laura L. Dugan

In Dugan's experiments, the modified

buckyballs shielded cultured neurons during several harmful treatments that are known to increase free-radical production. For example, they protected against damage from chemicals that mimic glutamate, a neurotransmitter that kills brain cells after head injury, stroke or cardiac arrest. They also blocked the disintegration of nerve cells deprived of oxygen and glucose — the initial event in stroke.

Moreover, they prevented the programmed cell death that follows serum removal or exposure to amyloid peptide, a culprit in Alzheimer's disease. A cascade of cellular signals orchestrates this cellu-

lar suicide, and one of these signals is a free radical.

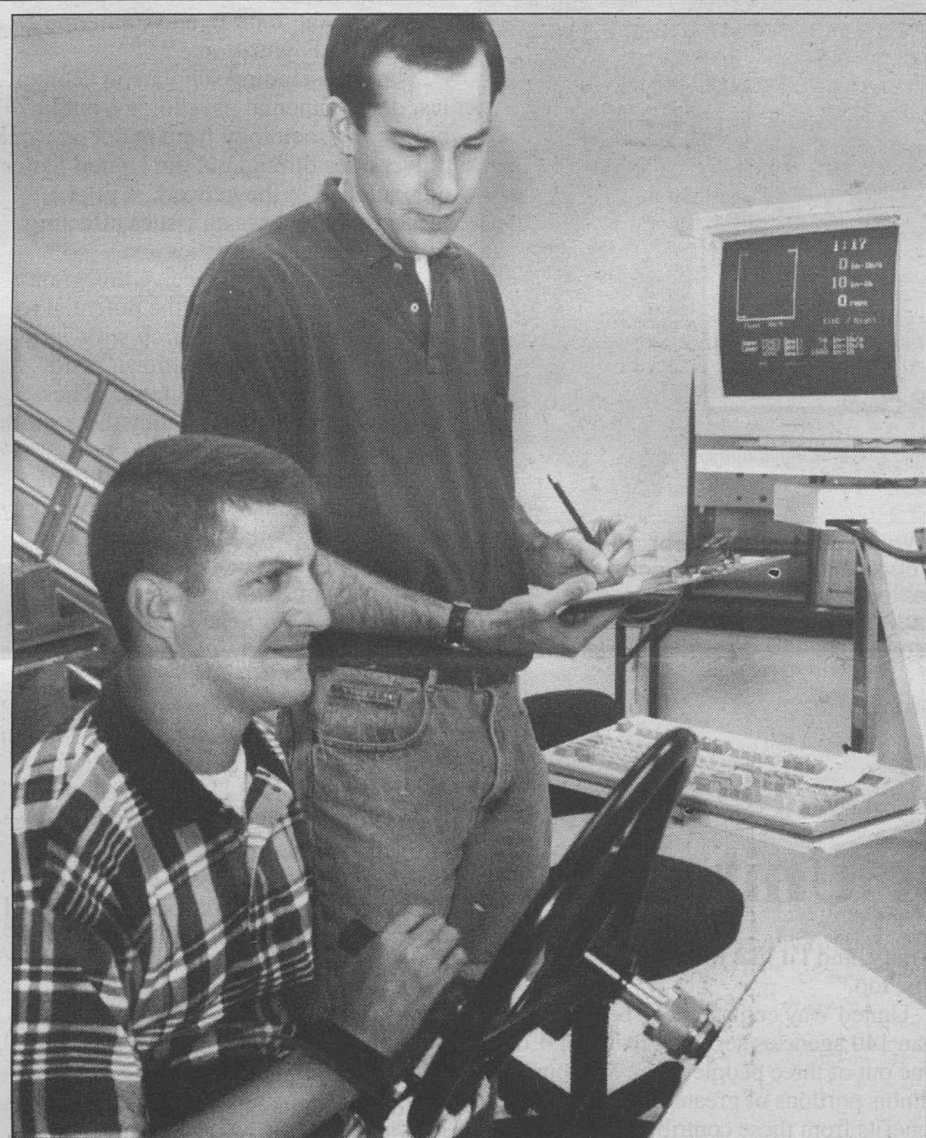
"Our working hypothesis is that the buckyballs act as generalized radical scavengers that prevent oxidative damage to cell membranes," Dugan said. "They also may interrupt the cell-suicide chain of commands."

To determine whether buckyballs can protect living animals, Dugan and her colleagues studied genetically altered mice. The animals carried a human gene for an inherited form of ALS. The gene codes for one of the enzymes that normally rid cells of toxic superoxide radicals.

The nerves of these mice usually start to degenerate at eight weeks, and hind-limb paralysis begins around week 15, two or three weeks before the animals die. But when the genetically altered mice received modified buckyballs through an abdominal pump, they developed hind-limb symptoms 10 days later than normal and lived an extra eight days.

"So their symptom-free life increased by up to 15 percent, and this added time was nearly half as long as the symptomatic period," Dugan said. "That makes us believe that, with better delivery systems, modified buckyballs eventually could be as protective in living animals and humans as in our cell-culture models."

— Linda Sage



### Driving desire

Eric Westacott, who was paralyzed five years ago while playing baseball, practices driving on a LIDO WorkSet as second-year occupational therapy student Lou Pitonyak monitors his skills. The ability to drive will help Westacott in pursuing his goal of becoming a lawyer. The driving simulation was conducted in the Program in Occupational Therapy's Work Performance Clinical Laboratories.

## New professorship awarded to Mackinnon

Susan E. Mackinnon, M.D., chief of the Division of Plastic and Reconstructive Surgery, has been named the first Shoenberg Professor of Plastic and Reconstructive Surgery at Barnes-Jewish Hospital. The endowed professorship was created by a gift from the Shoenberg Foundation to the Barnes-Jewish Hospital Foundation.

Samuel A. Wells, M.D., the Bixby Professor, head of the Department of Surgery and chief of surgery at Barnes-Jewish Hospital, and John P. Dubinsky, co-chair of the Barnes-Jewish Hospital Foundation, made the announcement.



Susan E. Mackinnon

"The Shoenberg Foundation once again

has shown its generosity in supporting excellence in medical care and research, and Dr. Mackinnon is well deserving of the new Shoenberg professorship," said Wells.

Mackinnon established her international reputation as a surgeon in 1988 by completing the first donor nerve transplant, a procedure that can restore feeling to severely injured limbs. Until recently, she was the only surgeon in the world performing the operation. Her patients have included a 3-year-old girl who nearly lost an arm in a riding-lawnmower accident and a teenage boy injured by a motorboat propeller.

Mackinnon's success as a surgeon is built on years of research on immunology and nerve regeneration and preservation. She also is a leading researcher in carpal tunnel syndrome and other repetitive motion injuries. She has held offices in several national and international societies, including the American Association of Hand Surgery, the American Society of Plastic and Reconstructive Surgeons and the American Association of Plastic Surgeons. She is a past president of both the American Society for Peripheral Nerve and the Plastic Surgery Research Council.

Mackinnon joined the School of Medicine in 1991 as professor of surgery in plastic and reconstructive surgery. She also has appointments in the Department of Otolaryngology and the Program in

Occupational Therapy. As chief of plastic surgery, Mackinnon directs plastic surgery services at Barnes-Jewish and St. Louis Children's hospitals.

Before joining Washington University, Mackinnon was an associate professor of surgery at the University of Toronto. She holds a bachelor's degree in premedicine and a medical degree, both from Queen's University in Kingston, Ontario.

The endowment by the Shoenberg Foundation continues a long tradition of support to Barnes-Jewish Hospital and to the medical school. The foundation was established by the late investment broker Sydney M. Shoenberg Sr. as a memorial to his wife, Stella H. Shoenberg, who died in 1967.

## Volunteers needed for Type II diabetes study

School of Medicine investigators are recruiting patients to participate in a nationwide study to find the genes involved in Type II, or non-insulin dependent diabetes mellitus (NIDDM). Ideal participants are families that have at least two siblings with the non-insulin dependent form of the disease. The researchers also are interested in recruiting families of various ethnic backgrounds. They hope to study genetic material from Caucasian, Hispanic, African-American and Japanese-American families.

The study is being funded by the National Institutes of Health and the American Diabetes Association. M. Alan Permutt, M.D., professor of medicine, is the principal investigator for the St. Louis portion of the multicenter study, called GENNID (genetics of non-insulin dependent diabetes). In addition to the St. Louis site, seven other centers are enrolling patients in the United States. They are located in Los Angeles, Denver, Houston, Seattle, Chicago, Salt Lake City and San Antonio.

Non-insulin dependent diabetes

primarily affects the body's response to insulin. Patients still secrete insulin, but it does not regulate blood sugar effectively. Most patients with this type of diabetes are 55 or older, and many are obese. Finding the genes involved could help doctors predict who is at risk for the disease and could allow those at risk to make changes in diet and lifestyle that are known to help prevent the disease's onset. The findings also could contribute to the development of new treatments for diabetes.

In 1993, Permutt was the first to identify a genetic marker for Type II diabetes. He found that many affected members in a group of French families had inherited an errant form of the glucokinase gene, which is critical to the secretion of insulin.

Study participants will have a small portion of blood drawn for genetic analysis. They also will participate in one or two mornings of glucose tolerance testing. Free medical exams and a small cash stipend will be provided for eligible participants. For more information, call (314) 362-8682.

# Record

**Acting editor:** Martha Everett, 935-5235, Campus Box 1070

**Associate vice chancellor, executive director, University Communications:** Judith Jasper

**Executive editor:** Susan Killenberg

**Editor, medical news:** Diane Duke, 286-0111, Medical School Box 8508

**Assistant editor:** David Moessner, 935-5293

**Production:** Galen Harrison

**Record** (USPS 600-430; ISSN 1043-0520), Volume 22, Number 4/Sept. 18, 1997. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO, 63130. Periodicals postage paid at St. Louis, Mo.

**Address changes and corrections:**

**Postmaster and non-employees:** Send to Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO, 63130.

**Hilltop Campus employees:** Send to Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, MO, 63130.

**Medical Campus employees:** Send to Payroll Office, Washington University, Campus Box 8017, 660 S. Euclid Ave., St. Louis, MO, 63110.

**Electronic Record:** To view the Record on the World Wide Web, go to <http://wupa.wustl.edu/record/record.html>.

**Washington**  
WASHINGTON UNIVERSITY IN ST. LOUIS



# Washington People

## Hudson blazes trail few women walk

**M**'Liss A. Hudson, M.D., had a penchant for science in high school. So when her Houston family packed her off to attend Baylor University in Waco, Texas, they suggested she become either a medical technician or a dental hygienist.

"It was a reflection of the times," said Hudson. "We didn't even think about the possibility of studying medicine."

But about the time Hudson was enrolling in honors chemistry and calculus courses, people across the country began debating women's rights and job equality. Suddenly, becoming a physician didn't seem like an unattainable goal. So Hudson graduated from Baylor in 1978 with a bachelor's degree in biology, magna cum laude, and a spot at the University of Texas Medical School in her hometown of Houston.

After graduating from medical school in 1982, Hudson completed her internship and residencies at Washington University, with distinctive honors.

From 1985-86, she was a National Kidney Foundation Research Fellow in the School of Medicine's Division of Urologic Surgery. The following academic year, Hudson was named chief resident of surgery. She then was an American Urologic Association Scholar, a noted honor in the field, from 1988 to 1990.

After spending two years as an assistant professor in the Scott Department of Urology at Baylor College of Medicine in Houston, Hudson returned to Washington University as an assistant professor in the urologic surgery division. She was named an associate professor in 1996.

Today, Hudson continues to blaze trails as a urologic surgeon, publishing research on bladder cancer that is drawing accolades and highlighting the misunderstanding of female urologic diseases.

"Dr. Hudson is an authority, a real authority, on the natural history and management of bladder cancer," said Carlos A. Perez, M.D., director of the Radiation Oncology Center and professor of radiology at the Mallinckrodt Institute of Radiology at the medical school. What's more, Perez said, she is wonderful with patients — empathetic and kind.

### "A unique perspective"

Hudson points out that there are very few women in her field today. "Of the approximately 10,000 board-certified urologists in the country, about 100 are women," she said. In fact, Hudson is the only woman to have completed Washington University's residency in urologic surgery.

William Turner, M.D., president-elect of the American Urological Association (AUA), recognizes a real need for more women in urology. "The numbers of women are smaller than in other fields. I'm not sure why, but we're trying to change that," said Turner, professor and chairman of the Department of Urology at the Medical University of South Carolina in Charleston.

"What we need," he said, "is more urologists like Dr. Hudson."

In fact, when Turner wanted someone to address women's urological issues at this year's AUA meeting, he gave the task to Hudson. "She's superb in oncology for both male and female patients. She brings a unique perspective to everything she does."

Hudson notes the correlation between the lack of female researchers in urology and the lack of research on women's urologic disorders. She says female problems such as incontinence or painful urination are dismissed either as untreatable or psychosomatic. Urologists often are perplexed by these persistent symptoms, Hudson said, but they shouldn't write off their female patients.

"With a little communication and some persistent detective work, urologists can make accurate diagnoses in most women and relieve their symptoms," she said. "There are some new options that weren't around 10 or 15 years ago."

For example, interstitial cystitis, an inflammation of the bladder, is a common and misunderstood disorder afflicting mostly middle-aged women. Characterized by

painful urination, the disease could affect hundreds of thousands of American women. Yet because there is no single test to detect the disease, the symptoms often are marked off as a sign of stress or even an overactive imagination. The treatment is relatively simple: medicine combined with certain dietary restrictions.

Interestingly enough, Hudson's work in general urinary disorders grew out of patient demand — women seeking her out for answers — and not from any fundamental interest on her part.



M'Liss A. Hudson, M.D. (right), associate professor of urologic surgery, shows a model of the human pelvic area to patient Betty Brown.

"Of the approximately 10,000 board-certified urologists in the country, about 100 are women."

She stresses that women with urinary diseases need to become active participants in their care, perhaps by keeping a diary of their symptoms and diet. If a woman can provide a detailed, accurate description of her problems, she has a better chance of receiving the right treatment, she said.

Hudson's primary research focuses on bladder cancer, including the little known tie between smoking and bladder cancer. As the number of women who smoke has increased in recent years, so, too, has the number of women contracting bladder cancer. The number of men contracting the disease, however, seems to be decreasing, which parallels the decline in the number of men who are smoking.

In fact, bladder cancer now is the second most common cancer attributed to cigarette smoking, following lung cancer. Experts suggest up to 30 percent of all bladder cancer cases can be attributed directly to smoking.

Another societal shift — more women in the work force — also has contributed to the increase in cancer cases. Occupational hazards and exposure to chemicals and herbicides have been linked to bladder cancer.

Detecting bladder cancer remains a somewhat difficult task. Because the general public is not well educated about the disease, women don't monitor their own risk factors and possible symptoms as they do with breast cancer. Some symptoms, frequent and urgent urination, mask themselves as recurrent urinary tract infections.

Also, the gold standard tool for detecting bladder cancer is a cystoscopy, a flexible instrument inserted into the urethra like a catheter. The simple test is possibly painful, so patients often are reluctant to have one.

But Hudson, along with several University colleagues, is involved in a study that could revolutionize bladder cancer detection. In the end, they hope to have the tools to develop an inexpensive and accessible test that would detect bladder cancer in a urine sample. Hudson and colleagues are working to develop a panel of markers — proteins and receptors — that would serve as red flags in a urine sample, indicating the possibility of bladder cancer.

"A noninvasive test like this would benefit patients enormously," Hudson said. "It would also be an easy tool for hospitals to use."

Another study of Hudson's, published this year in the Journal of the National Cancer Institute, will help the field better understand the role certain enzymes play in the way a bladder tumor grows. Hudson's study showed that if an enzyme, known as urokinase, is focused on the surface of the tumor by a receptor, that tumor could invade locally or spread. It was the first study to examine the enzyme in pure bladder tumor cell lines.

Other studies have looked at the whole tumor, making it difficult to determine if the enzyme was being secreted by the cell or by some other matter in the tumor. Different tumors show different abilities to produce urokinase and its receptor. Only tumors expressing both are invasive or metastatic. The presence or absence of such enzymes and their receptors might partially explain aggressive or slow tumor behavior.

"Next, we'd like to prove that if we can modulate or block the enzymes or receptors, we can prevent tumors from

invading locally or metastasizing," Hudson said.

### Filling the void

Hudson's work also is helping fill the void of research on women and urologic diseases. Most studies have included a majority of male patients, which is not unusual since the disease occurs more frequently in men than women. But the increase in female cases calls for data like Hudson's.

In one study, she found that women were slightly less likely than men to have a tumor recurrence — 19 percent in women versus 24 percent in men. Data from her work also supports the theory that women contract the disease later in life than men and that women's survival rates are better. Women get the disease at a median age of 70, and the interval to recurrence was significantly longer in women (400 days) than in men (100 days).

With such intense professional demands, Hudson and her husband, Steve Eisenberg, a heart surgeon at St. Luke's Hospital and St. Anthony's Medical Center, look forward to downtime on the weekends. The couple, who met in medical school, has two sons: William, 4, and Michael, 9.

Hudson occasionally joins her husband and sons for a game of tennis — they are avid fans — but her favorite leisurely pursuit is fixing up old houses. The family owns an old house in suburban Huntleigh that Hudson is renovating.

But she is not the kind of rehabber who hires the work out.

"Really, I find it's just easier if I do it myself," she said. "If you have a bad day, there's nothing like going home and taking out a wall to release a little stress."

—Nancy Mays



# Calendar

Visit Washington University's on-line calendar at <http://cf6000.wustl.edu/calendar/events/v1.1>

## Sept. 18-27



## Exhibitions

**Olin Library Special Collections.** "The Gehenna Poets: 1959-1995." Through Oct. 20. Special Collections, level five, Olin Library. 935-5495.

**"[Pro]Fusion."** An exhibition of installation art by selected MFA candidates. Through Sept. 22. Bixby Gallery. 935-4643.

**Selections From the Washington University Art Collections.** "Art in the Age of Revolution." Through Oct. 12. "Leonard Baskin: Prints." Through Dec. 7. Gallery of Art, lower gallery. 935-5490.

**"Site As Context: Schools of Art and Architecture Faculty Projects."** Through Oct. 19. Gallery of Art, upper gallery. 935-5490.



## Films

### Wednesday, Sept. 24

**6 p.m. Japanese Film Series.** "Akira." Room 219 South Ridgley Hall. 935-5156.



## Lectures

### Thursday, Sept. 18

**Noon. Genetics seminar.** "Molecular Genetics and Prognosis in Head and Neck Cancer Patients." Steven Scholnick, asst. prof. of otolaryngology. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**1:10 p.m. Social work lecture.** "St. Louis 2004: A Vision for a Vibrant Community." John C. Danforth, chairman, St. Louis 2004. Brown Hall Lounge. 935-5687.

**4 p.m. Assembly Series lecture.** "The Cultural and Legal Meaning of Desegregation: Has It Been Achieved? Can It Be Achieved?" Charles V. Willie, prof. of education and urban studies, Harvard U., and Kimberlé Crenshaw, prof. of law, U. of Calif. at Los Angeles. Graham Chapel. 935-5285.

**4 p.m. Earth and planetary sciences lecture.** "Use of Groundwater Tracing Methods." Tom Aley, pres., Ozark Underground Laboratory. Room 361 McDonnell Hall. 935-5610.

**5:30-7:30 p.m. Panel discussion.** Topic: desegregation. Sponsored by the Mellon Minority Undergraduate Fellowship Program. Moderated by Gerald L. Early, dir., African and Afro-American Studies, and the Merle Kling Professor of Modern Letters. Panelists include William H. Danforth, chairman, Board of Trustees; Kimberlé Crenshaw, prof. of law, U. of Calif. at Los Angeles; Charles V. Willie, prof. of education and urban studies, Harvard U. Women's Building Lounge. 935-5285.

### Friday, Sept. 19

**8 a.m. Oncology lecture.** The Norman K. Probstin Oncology Lecture. "Experience with 3-D Conformal Treatment of 1000 Patients With Prostate Cancer." Gerald E. Hanks, chair, department of radiation oncology, Fox Chase Cancer Center, Philadelphia, Pa. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 362-2866.

### 9:15 a.m. Pediatric Grand Rounds.

"Earthquakes, Wind and Fire: Pediatrics and Disasters." Dee Hodge, assoc. prof. of pediatrics and assoc. dir., clinical affairs-emergency services, Children's Hospital. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Brown bag lunch.** Sponsored by McDonnell Center for the Space Sciences. "Bringing Science to the Public." Ken Crosswell, author and science writer. Room 241 Compton Hall. 935-5610.

**Noon. Cell biology and physiology seminar.** "Neural Differentiation of Embryonic Stem Cells." James E. Huettner, asst. prof. of cell biology and physiology. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

**7:30 p.m. Earth and planetary sciences illustrated lecture.** "Planet Quest." Ken Crosswell, astronomer and author. Room 162 McDonnell Hall. 935-4614.

### Saturday, Sept. 20

**9 a.m.-3:30 p.m. African and Afro-American Studies and European Studies conference.** "African-American Artists and Intellectuals in Europe: Russia, France and England." Women's Bldg. Lounge. 935-5690.

### Monday, Sept. 22

**Noon. Biology lecture.** "Volvox and the Origins of Multicellularity and Cellular Differentiation." David Kirk, prof. of biology. Philip Needleman Library, Room 3907 South Bldg. 362-2725.

**4 p.m. Biology lecture.** "Radical Modifications in the Expression Domains and Developmental Roles of Homeobox Genes During Echinoderm Evolution." Greg Wray, asst. prof. of ecology and evolution, State University of New York-Stony Brook. Room 322 Rebstock. 935-6860.

**4 p.m. Immunology seminar.** "Lessons From Studying Lysozyme Processing for Class II MHC Peptide Selection." Emil R. Unanue, the Edward Mallinckrodt Professor and head of pathology. Eric P. Newman Education Center. 362-2763.

**6:15 p.m. German lecture.** "Der Text als Kugel: Über Heinrich von Kleists 'Der Zerbrochene Krug.'" Klaus Jeziorkowski, prof. of German, Frankfurt University, Frankfurt, Germany. Hurst Lounge, Room 201 Duncker Hall. 935-5106.

### Tuesday, Sept. 23

**Noon. Molecular microbiology and microbial pathogenesis seminar.** "Mycobacterium: A Stowaway Within the Host Cell's Endosomal Network." David Russell, prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 362-3692.

### Wednesday, Sept. 24

**6:30 a.m. Anesthesiology Grand Rounds.** "Assessment of Diastolic Function." Demetrios Lappas, chief, division of cardiothoracic anesthesiology, prof. of anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

**8 a.m. Obstetrics and Gynecology lecture.** "Benefits and Risks of Oral Contraceptives: A Current Perspective." Johanna F. Perlmutter, medical director, dept. of obstetrics and gynecology, Women's Health Associates, Beth Israel Hospital, Boston. Clopton Aud., 4950 Children's Place. 362-7139.

**11 a.m. Assembly Series lecture.** "Mass Emigration and Intellectual Exile From National Socialism: The Austrian Case." Egon Schwarz, prof. emeritus of German and Rosa May Distinguished University Professor Emeritus in the Humanities. Graham Chapel. 935-5285.

**3:45 p.m. Physics lecture.** "The Cosmic Microwave Background and the Geometry of the Universe." Marc Kamionkowski, prof. of physics, Columbia U. Refreshments, 3:30 p.m., Room 241 Compton Hall. Lecture, Room 204 Crow Hall. 935-6252.

### Thursday, Sept. 25

**Noon. Genetics seminar.** "A Genome-wide Scan of QTLs for Human Personality." Robert Cloninger, Wallace Renard prof. of psychiatry. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**4 p.m. Chemistry seminar.** "The World of Imaging: Photodefinable Polyimides and

High Resolution 248 mm Lithography." Uday Kumar, Shipley Co. Refreshments, 3:40 p.m. Room 311 McMillen Laboratory. 935-6530.

**4 p.m. Earth and planetary sciences colloquium.** "Recent Advances in Tectonic-Geomorphic Feedbacks and Orogenesis." Nicholas Pinter, asst. prof. of geology, Southern Illinois U. at Edwardsville. Room 361 McDonnell Hall. 935-5610.

### Friday, Sept. 26

**9:15 a.m. Pediatric Grand Rounds.** "Pulling Strings to Build a Better Brain: A Tension-based Theory of Morphogenesis of the Central Nervous System." David Van Essen, Edison Prof. of Neurobiology and head of anatomy and neurobiology. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology seminar.** "Regulation by Protein Degradation: The Ubiquitin-Proteasome Pathway." Mark Hochstrasser, dept. of biochemistry and molecular biology, U. of Chicago. Room 426 McDonnell Medical Sciences Bldg. 362-6950.



## Music

### Friday, Sept. 19

**8 p.m. Violin and fortepiano recital.** Program: Franz Schubert. Christine Busch, violin; Seth Carlin, fortepiano. Steinberg Aud. 935-4841.

### Saturday, Sept. 20

**8 p.m. Graduate recital.** Lori Barrett, soprano; Henry Palkes, piano. Graham Chapel. 935-4841.

**8 p.m. The Newberry Consort in concert.** "Amazons and Mad Women: Popular Music and the Art Song in Late 17th-century England." Umrath Hall Lounge. 935-4841.

### Friday, Sept. 26

**4 p.m. Music lecture.** "In Search of a Musical Jugendstil in Fin-de-siècle Literary and Art Journals." Bonny Hough Miller, chief staff pianist, U. of Miami School of Music, Salzburg, Austria. Music classroom bldg. 935-4841.

**8 p.m. Duo-piano recital.** Program: Johannes Brahms, Wolfgang Amadeus Mozart and Franz Schubert. Annette Burkhardt and Jennifer Lim, piano. Steinberg Aud. 935-4841.

### Saturday, Sept. 27

**8 p.m. Graduate recital.** Stacia Thiel, soprano; Henry Palkes, piano. Graham Chapel. 935-4841.



## Miscellany

**Registration open for the following Office of Continuing Medical Education seminars.** "Contemporary Cardiothoracic Surgery" (Sept. 18-20) and "New Techniques in Urinary Incontinence and Female Urology" (Oct. 18). Eric P. Newman Education Center. For times, costs and to register, call 362-6891.

**Registration open for Diagnostic Radiology seminar.** "Practical Issues in Leading-edge Radiology II" (Oct. 17-19). For times, costs and to register, call 362-2916.

### Friday, Sept. 19

**4 p.m. Soiree in the Swamp.** Outdoor festival. Food, volleyball and music. Bands include Susan McKeown and the Chanting House, Cliff Eberhardt and Uncle Albert's Blues Band. Student performances on the second stage. The Swamp, residence hall area off Wydown Blvd. 935-7576.

**6 p.m. Book arts workshop.** "Record Your Personal Journey in Textiles and Text." (Continues Fridays through Oct. 24.) Cost: \$175/series. Room 104 Bixby Hall. To register, call 935-4643.

### Saturday, Sept. 20

**9 a.m. Book arts workshop.** "Learn Basic Bookbinding." Cost: \$35, plus \$15 supply fee. Room 104 Bixby Hall. To register, call 935-4643.

**9:30 a.m. Library workshop.** Learn how to use a library. (Also, Oct. 4.) Olin Library. To register, call 935-6777.

**10 a.m. University College writing workshop.** "Internet for Journalists (and Others)." Tatnall Warner, editor for electronic media, St. Louis Post-Dispatch, and lecturer in communications and journalism. Enrollment limited. (Continues Sept. 27, same time.) Cost: \$70. For more info. and to register, call 935-6788.

### Monday, Sept. 22

**8 p.m. The Writing Program Reading Series.** Ann Patchett, Tennessee Williams Creative Writing Fellow, U. of the South., reads from her book, "The Magician's Assistant." Hurst Lounge, Room 201 Duncker Hall. 935-7130.

### Wednesday, Sept. 24

**9 a.m. Book arts workshop.** "Look Through the Painter's Eye." (Continues Wednesdays through Oct. 15.) Cost: \$60/series. Gallery of Art. To register, call 935-4643.

### Friday, Sept. 26

**10 a.m.-5 p.m. Society of Black Engineers Career Fair.** "Forming Partnerships for the Future." Francis Gymnasium. 935-6115.

### Saturday, Sept. 27

**9 a.m. Business seminar.** "New Directions in Management" seminar series sponsored by Alumni Association of the John M. Olin School of Business. "Capitalizing on Customer Potential: Building a Profitable Business That Grows and Lasts." Marcia K. Armstrong, associate dean and Vernon W. Piper Director of Executive Programs. Cost: \$100. Reduced rates for Olin Eliot Society or Olin Century Club members. Room 112 Simon Hall. For more information and to register, call 935-7398.

**10 a.m. Book arts workshop.** "Personal Memories Make Personal Books." (Continues Oct. 11, same time.) Cost: \$55, plus \$20 materials fee. Room 104 Bixby Hall. To register, call 935-4643.

**10 a.m. Science Saturdays series.** "Measuring the Very Large and the Very Small, the Very New and the Very Old." Michael W. Friedlander, prof. of physics. Room 201 Crow Hall. 935-6788.

### TIME CHANGE NOTICE

The Mellon Minority Undergraduate Fellowship Program panel discussion on desegregation will be held from 5:30 to 7:30 p.m. Thursday, Sept. 18, in the Women's Building Lounge.

## Business school holds seminars

The Alumni Association of the John M. Olin School of Business is sponsoring three "New Directions in Management" seminars. The schedule is:

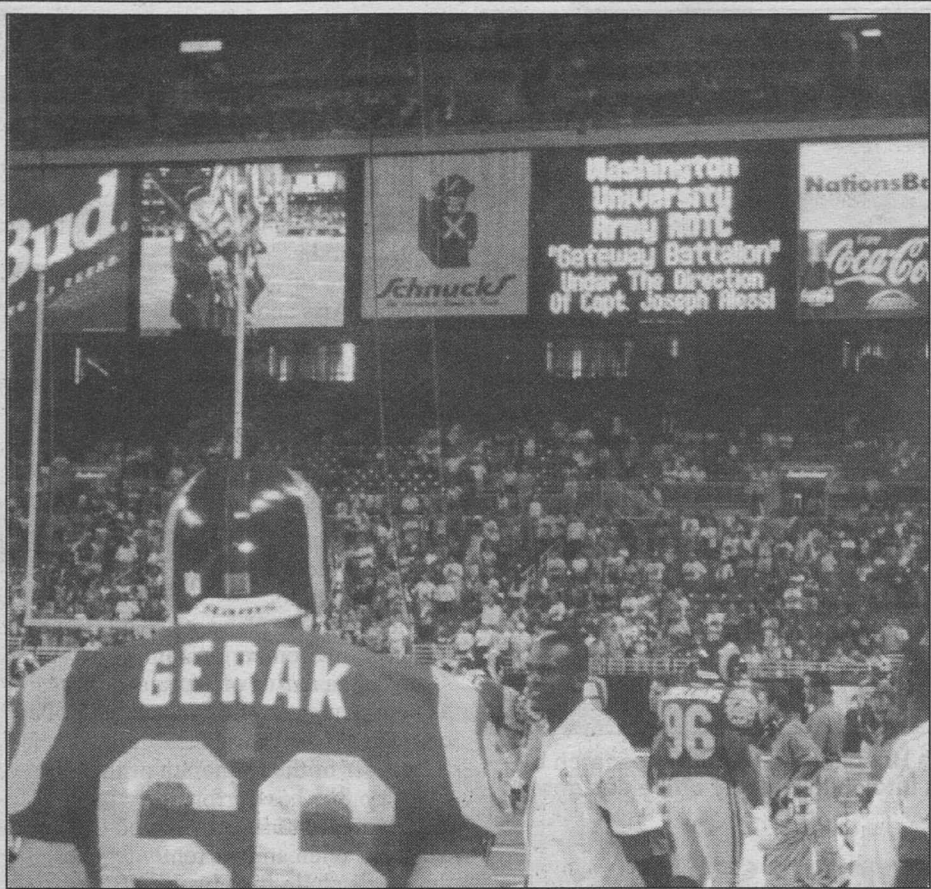
- "Capitalizing on Customer Potential: Building a Profitable Business That Grows and Lasts," presented by Marcia K. Armstrong, Ph.D., associate dean and Vernon W. Piper Director of Executive Programs, 9 a.m. Saturday, Sept. 27, Room 112 Simon Hall;

- "The Art and Science of Conflict Resolution: Negotiating Workable Agreements," led by Judi McLean Parks, Ph.D., assistant professor of organizational behavior, Jan. 24; and

- "Entrepreneurial Lessons: Conversations From the Trenches," led by Russell Roberts, Ph.D., director of the Management Center, March 4.

For information, call (314) 935-7398.



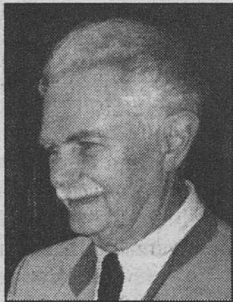


### On the board

St. Louis Rams player John Gerak watches Washington University's Army ROTC "Gateway Battalion" Color Guard on the video screen at the TWA Dome Aug. 22. The battalion presented the colors before the Governor's Cup, the annual preseason football game between the Rams and the Kansas City Chiefs.

## German literature scholar talks on national socialism

Egon Schwarz, Ph.D., professor emeritus of German in Arts and Sciences, will deliver a lecture titled "Mass Emigration and Intellectual Exile from National Socialism: The Austrian Case" at 11 a.m. Wednesday, Sept. 24, as part of the Assembly Series. The lecture also is part of the University's yearlong "Vienna Fest 1997," a celebration of 19th- and early 20th-century Viennese music and culture. (See story on page 6.) Schwarz's talk, which is free and open to the public, will take place in Graham Chapel.



Egon Schwarz

Schwarz is the Rosa May Distinguished University Professor Emeritus in the Humanities at Washington University, where he has taught for 32 years. He is an expert on 19th- and 20th-century German literature and has made important contributions to the study of German literary figures such as poet Rainer Maria Rilke and novelist Hermann Hesse. His book "Verbannung" (1964) was the first major study of the literary exiles who left Germany because of Hitler's regime. Schwarz's 1979 autobiography, "No Time for Eichendorff," details his life in this hemisphere after he and his parents were forced to flee Europe during World War II.

Schwarz approaches literature from a historical perspective, studying history's influence on literary works as well as the influence of an audience on the meaning

of a work. This approach was evident in the 1970 publication of an article on why young Americans during the 1960s elevated German author Hermann Hesse to the status of cult hero. Schwarz argued that Americans discovered aspects of Hesse's work that had gone unnoticed by German scholars and the German reading public.

In approaching the poetry of Rainer Maria Rilke, Schwarz's 1972 book "Stifled Protest: Politics and Poetry in the Work of Rainer Maria Rilke" created an ongoing controversy in Germany and Switzerland over his thesis that the mystical poetry of Rilke was influenced by the times in which the poet lived.

Schwarz, a native of Vienna, immigrated to South America in the 1940s and subsequently moved to the United States, where he earned bachelor's and master's degrees from Ohio State University in 1950 and 1951, respectively, and a doctorate in German literature from the University of Washington in 1954. He taught at Harvard University for seven years before joining the Washington University faculty in 1961. Schwarz retired from teaching in 1993.

Now in its final months, "Vienna Fest 1997" honors the 200th anniversary of Franz Schubert's birth and the centenary year of Johannes Brahms' death. It is a series of concerts, lectures, symposia, art exhibitions, scientific displays and other festivities featuring the music and times of the two Austrian composers.

For more information on the Schwarz lecture and the Assembly Series, call (314) 935-5285.

## School of Architecture to host Midwest Educators' Conference

The School of Architecture will host the first Midwest Educators' Conference on Saturday, Sept. 20, to begin the process of creating a regional network of select Midwest architecture schools and to provide an opportunity for discussion of educational issues.

The forum is sponsored by the architecture school and the Graham Foundation for Advanced Studies in Fine Arts. It will bring together representatives from Archeworks in Chicago, Washington University and other prominent Midwest universities.

Participants will discuss architectural

education in relation to the increasing globalization of the practice of architecture, as well as focus on possibilities arising from alternative educational associations and practices.

"We would like to begin the process of creating a regional network to provide an opportunity for discussion and debate about the goals and curricula of the schools represented," said Cynthia Weese, FAIA, dean of the architecture school. "We also hope to strengthen linkages between our schools, furthering the creation of a greater sense of architectural community in this large territory."

## Senior Brad Klein selected 'Scholar Athlete of the Week'

Senior outside linebacker and co-captain Brad Klein has been selected by Burger King Corp. as a Division III football "Scholar Athlete of the Week." He is the second Washington University player in as many years to earn the award, following Chad Jackson's similar recognition in 1996.

Burger King Corp. and its franchisees will donate \$10,000 in Klein's name to Washington University's general scholarship fund. The award was announced during ABC's nationally televised college football game Saturday, Sept. 13.

Washington University and Burger King plan to honor Klein during a halftime ceremony at the Bears' homecoming game against the University of Rochester on Oct. 25. At that time, a Burger King representative will present Klein and Washington University with a \$10,000 check.

The honor is given by the company in honor of college football seniors who maintain high academic standards, excel on the field and are actively involved in the community. The Burger King College Football Scholarship Program is

the largest single corporate commitment to college scholarships in the United States and the only one that recognizes athletes for academics, community service and athletics.

Named a first-team all-University Athletic Association (UAA) linebacker in 1996, Klein ranked third on the squad with 94 tackles and second with 4.5 pass sacks. He also earned GTE second-team academic all-district honors. In last week's season-opening shutout over Rhodes College, Klein registered six tackles and two pass sacks as the Bears set a school record for fewest yards allowed in a game — 27 yards.

Klein, who is from Watertown, Wis., also competes in track and field during the spring, having earned six all-UAA citations as a triple jumper. During his Washington University career, he has been a member of three UAA championship football teams and three UAA championship track and field (indoor and outdoor) squads.

Off the field, Klein carries a 3.73 cumulative grade-point average as a chemical engineering major in the School of Engineering and Applied Science. A 1997 GTE Academic All-America candidate, he is a recipient of a Washington University Langsdorf Engineering Scholarship and a member of Tau Beta Pi engineering honorary. Klein is also an active member of the Theta Xi fraternity philanthropy committee, helping raise funds for multiple sclerosis.

## Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, asst. director, sports information. For the most up-to-date news about Washington University's athletics program, access the Bears' Web site at [www.sports-u.com](http://www.sports-u.com).

### Football Bears explode for 77 points in win

Washington University watched its offense grab the headlines as the football Bears walloped Illinois College 77-7 last Saturday at Francis Field.

En route to their sixth consecutive victory, the Bears established school marks for most points in a quarter (29 in the first) and in a half (57 in the first). Washington's 77 points fell 11 shy of the school mark of 88 set in a shutout win over McKendree College in 1938.

Current Record: 2-0 (0-0 UAA)

This week: 12:30 p.m. (EDT) Saturday, Sept. 20, at Case Western Reserve University, Cleveland, Ohio.

### Women's cross country wins WU Invitational

The women's cross country team won the team championship of the six-team Washington University Invitational on Saturday, Sept. 13. WU's men's team finished second to McKendree College, 30-27. The Bears took places 4-9, 12-14 and 16-18 in the first of three home meets this season.

This week: 10 a.m. Saturday, Sept. 20, at Les Duke Midwestern Invitational, Grinnell, Iowa.

### Men's soccer falls to 25th-ranked Trinity

Trinity University of San Antonio, Texas, spoiled Joe Clarke's Washington University home coaching debut, defeating the Bears 4-0 last Friday, Sept. 12, at Francis Field. Trinity scored at the 9:14 mark of the first half for a 1-0 lead. The Tigers added two more goals prior to intermission.

Current Record: 1-1 (0-0 UAA)

This week: 11 a.m. Sunday, Sept. 21, versus Carnegie Mellon University (UAA), Francis Field.

### Women's soccer beats Principia, falls to Illinois

Washington University's women's soccer team opened its week with a 5-0 home victory Sept. 10 over Principia College. The Bears pitched their third consecutive shutout to open the season.

On Sunday, Sept. 14, Illini beat the Bears in a 4-3 double-overtime victory.

Current Record: 3-1 (0-0 UAA)

This week: 1 p.m. Saturday Sept. 20, versus St. Mary's College (Ind.), Francis Field; 1:30 p.m. Sunday, Sept. 21, versus Carnegie Mellon University (UAA), Francis Field.

### Volleyball shares title; hosts WU Invitational

After having its 43-match winning streak versus NCAA Division III foes snapped on Friday, Sept. 12, with a loss to University of Wisconsin-Whitewater, the women's volleyball team won its final three matches of the College of St. Benedict Holiday Inn-Invitational to gain a share of the tourney championship.

On Saturday, the Bears defeated the University of Wisconsin-Oshkosh and the University of St. Thomas. Junior hitter Jenny Cafazza was named the Most Valuable Player of the five-team tournament. Classmate Jennifer Martz joined Cafazza on the all-tournament team.

Washington University opens its 1997 home season on Friday, Sept. 19, with the Washington University National Invitational.

Current Record: 5-3 (0-0 UAA)

This week: 5:30 and 7:30 p.m. Friday, Sept. 19, versus St. Olaf College and Brigham Young University-Hawaii, WU Field House; 10 a.m. and 2 or 4 p.m. Saturday, Sept. 20, versus University of La Verne and in first- through eighth-place matches, WU Field House.





The children's annex waiting area in Spoehr Children's Tower at St. Louis Children's Hospital is a result of research by Rebecca Eder, Ph.D., adjunct assistant professor of psychology in Arts and Sciences, into child-friendly office designs.

## Office environment aids the healing process — from page 1

child was truly happy after losing a limb, they'd be referred to my department for evaluation. This feel-good obsession hinders children from identifying their own emotions. It says, 'Here is how you have to feel.' This is an artificial and inappropriate way to manipulate a child's emotions. But the major thing is that it doesn't help children identify, learn about and think through their emotions."

Eder has conducted in-depth tests and interviews with hundreds of young children as part of her research into the development of self-concept — how emotions, feelings and other psychological factors contribute to a child's sense of self-worth, self-control and self-image. A child's self-concept, for instance, helps determine whether he or she feels accepted or rejected by others or whether there's hope for a happy life after illness.

"My experience has shown it's good for children to be able to identify and articulate how they feel," she said. "It's hard to begin thinking and talking about things that are authentic in a setting that looks like an amusement park. These carnival-like settings can be barriers for children struggling to reconnect with their feelings and to begin the healing process."

Eder was determined to develop a design strategy that actually offered some support to children dealing with tough emotional issues. She teamed up with Michelle S. Anaya, a Los Angeles architect specializing in environmental design for children, and began studying pediatric spaces around the country. In addition to the carnival theme, the other prevalent design trend they found was a home-based look.

Eder doubts whether these carnival and pseudo-home-like environments contribute much to the healing process. Ask people of any age to envision an ideal location for a lengthy rehabilitation process, said Eder, and most will suggest beaches, mountains, forests and other natural settings where they can immerse

**"We have to encourage these kids and their families to take on the issues of health and illness and death."**

—Rebecca Eder

themselves in the soothing ebb and flow of gently changing natural processes. Eder and Anaya began looking for ways to incorporate natural themes into the design of medical space. Anaya's brother, Nolan, an award-winning designer of handmade furniture, was brought in to build desks, cabinetry and other furnishings for the medical office.

"The key point here," said Eder, "is that we have to encourage these kids and their families to take on the issues of health and illness and death. We went looking for images that help children connect to our basic knowledge and understanding of all humanity. We wanted images that help kids talk about life and living things and what happens to living things."

The result is a suite of offices and a waiting room artfully decorated with unifying natural themes — ocean, plains, jungle, forest. Hand-crafted wood cabinetry, table tops and shelving units inlaid with playful, stylized dolphins, bears and seahorses have replaced hard metal-and-plastic chairs and Formica-clad reception desks. Box-like offices have been re-contoured, adding gently curving plastered walls. Fluorescent ceiling light panels were replaced with track lighting on dimmer switches to soften the office atmosphere.

Her waiting room features an authentic-looking grocery store with wood floors and actual food bins where children can walk around and load up their grocery carts. A light table similar to those used by photographers to examine slides provides a place where older children can look at X-rays, while younger children see it as a great place for tracing pictures.

The entire project, including sound-proofing, was completed at a cost comparable to the budget for a traditional renovation.

The effect has drawn raves from both children and adults.

"We want them to be engaged, to start thinking about life and death and other natural themes," Eder said. "Dealing with these issues is part of the healing process."

Eder tells the story of a child who had been electively mute for months following a traumatic battle with sickle cell anemia. The child entered one of the redesigned counseling rooms and said his first words in months: "I want to swim with the dolphins."

Eder adds, "They need spaces that help people deal with issues of healing, of health, of illness, of death — not in a morbid sense — but as a place where you could feel at ease to ask the hard questions you need answers for."

—Gerry Everding

## 'Vienna Fest 1997' launches fall events

German violinist Christine Busch, renowned as a performer of early music, and Seth Carlin, professor of piano in the Department of Music in Arts and Sciences, will launch the fall calendar for "Vienna Fest 1997" with a recital of chamber music by Franz Schubert. The concert, which is free and open to the public, takes place at 8 p.m. Friday, Sept. 19, in Steinberg Auditorium.

Christine Busch

Busch, a native of Stuttgart, serves as concertmaster of Cologne's chamber orchestra "La Stravaganza," and also is a member of the Camarata of the 18th Century. She has performed with Nicholas Harnoncourt's famed Concentus Musicus Wien and currently teaches at the Hochschule für Musik in Berlin.

The program will be performed on instruments appropriate to Schubert's time — the fortepiano and a violin with gut strings similar to those used in the early 19th century.

"Vienna Fest 1997" celebrates the 200th anniversary of Schubert's birth and the 100th anniversary of Johannes Brahms' death. The yearlong festival emphasizes the arts, literature and culture of the exceptionally creative period in Viennese history that stretched from the 18th century to the early 20th century.

Among the events in the series are:

- Egon Schwarz, Ph.D., professor emeritus of German in Arts and Sciences and the Rosa May Distinguished University Professor Emeritus in the Humanities, presents "Mass Emigration and Intellectual Exile from National Socialism: The Austrian Case," as part of the Assembly Series at 11 a.m. Wednesday, Sept. 24. (See story on page 5.)

- Fortepianist Malcolm Bilson presents an evening of Brahms and Schubert as part of Edison Theatre's OVATIONS! series at 8 p.m. Oct. 18. Bilson will be joined by Seth Carlin, also on fortepiano.

- The Department of Germanic Languages and Literatures in Arts and Sciences sponsors "A Vienna Fest 1997 Colloquium on the Occasion of Egon Schwarz's 75th Birthday" on Oct. 18.

- Bass Myron Myers, accompanied by Maryse Carlin, sings a "Liederabend" on Oct. 19.

- The Performing Arts Department in Arts and Sciences presents Arthur Schnitzler's "La Ronde" Nov. 14-16 and Nov. 21-23. The production will be preceded on Nov. 6 by the symposium "Staging the Erotic in Turn-of-the-Century Vienna" moderated by Henry I. Schvey, Ph.D., professor and chair of performing arts.

Other events include concerts, lectures and two University College-sponsored courses in October.

For more information, call (314) 935-4841.

## Campus Watch

The following incidents were reported to the University Police Department from Sept. 8-14. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety awareness on campus.

### Sept. 8

3:04 p.m. — A staff member reported that petty cash totaling about \$40 was stolen from an unlocked desk drawer in Simon Hall.

4:13 p.m. — A student reported receiving seven to 10 harassing telephone calls in Myers Residence Hall Sept. 1-8.

### Sept. 10

9:47 a.m. — A staff member reported that the Center for the Study of Islamic Societies sign was stolen from a hallway in Busch Hall.

2:05 p.m. — A staff member reported that someone smeared ketchup on the walls outside an office in Cupples II Hall.

### Sept. 11

12:35 p.m. — A staff member reported that a pager and a wallet containing credit cards were stolen from an unlocked locker in the Athletic Complex. The wallet was recovered in another locker, but the pager remains missing.

### Sept. 12

8:08 a.m. — A staff member reported that a large sculpture outside Givens Hall was pushed off its base.

### Sept. 13

5:18 a.m. — An officer on patrol discovered that fliers on the bulletin board south of the underpass on the South 40 Walkway had been burned, causing minor damage to the board.

6:51 p.m. — A student reported that a white male in his 30s exposed himself on the fifth floor of Olin Library. The man fled the scene.

**Crime alert:** Between Aug. 21 and Sept. 8, 14 bicycle thefts have occurred on the Hilltop Campus and in the South 40 residence area. University Police suggest that all bicycles be secured with a high-grade security lock, locking the front wheel and frame to a bike rack. They also encourage participation in the free Bicycle Registration Program and the Bike Lock Program. For information, contact University Police at (314) 935-5555.

## Art, autos mix at local dealership

A car dealership isn't the first place people think to go when they want to see art. But people wheeling into one local dealership got an eyeful.

Customers at Feld Southpointe Toyota recently judged an automobile color scheme contest on display in the showroom — and three School of Art students drove away winners.

The competition was the brainchild of Alan Soskin, managing partner of the dealership and a 1981 graduate of Washington University. Soskin approached the art school with the idea to have students reinterpret the Toyota Camry's color scheme.

John Brandon Miller, a junior from Russell, Ky., majoring in communications-graphic design, and Rachel Dansky, an English literature major, from Stamford, Conn., who graduated last summer, shared a \$500 first-place prize. Corinne Ulmann, a senior majoring in painting

and chemical engineering from Missouri City, Texas, won a \$300 second prize.

In addition to the cash prizes, Soskin is donating \$2,500 to the art school's scholarship program.

The winners were selected from 16 entries from a sophomore-level intensive color class taught by Mark Green, lecturer in art. All of the entries are currently on display at the car dealership at 11771 Tesson Ferry Road.

Soskin said the winning entries made an interesting use of color and numbers and revealed the international face of the automobile industry in a global economy.

"I love how the students took their own interests and translated them into a car design," Soskin said. "One student used Indian motifs; another, international flags; and a third, pop art to color their entries. The entries proved more creative and more varied than I anticipated."



## Introducing new faculty members

The following are among the new faculty members on the Hilltop Campus. Others will be introduced periodically in this space.

**Casey N. Blake, Ph.D.**, associate professor of history, has a joint appointment in the School of Architecture and the Department of History in Arts and Sciences. A cultural historian, he will serve as coordinator of the University's graduate program in American Culture Studies. Blake comes from Indiana University in Bloomington, where he was a member of the history faculty since 1987 and director of the American Studies Program since 1995. He received a bachelor of arts degree in history and the College of Letters from Wesleyan University in Middletown, Conn. He earned a master's and a doctorate in history in 1981 and 1987, respectively, both from the University of Rochester (N.Y.). Blake is the author of the significant academic book "Beloved Community: The Cultural Criticism of Randolph Bourne, Van Wyck Brooks, Waldo Frank and Lewis Mumford."

**Donna K. Ginther, Ph.D.**, assistant professor of economics in Arts and Sciences, comes from Southern Methodist University in Dallas, where she served as an assistant professor in economics since 1995. Ginther has three degrees in economics from the University of Wisconsin at Madison — a bachelor's in 1987, a master's in 1991 and a doctorate in 1995. Ginther's research explores the effects of higher education on wage determination and earnings inequality. She has a special interest in the effect of public and family investments on children's socio-economic outcomes.

**Shirley Porterfield, Ph.D.**, assistant professor of social work, joins the George Warren Brown School of Social Work this semester. She taught here previously as a visiting assistant professor in the Department of Political Science in Arts and Sciences. She has held teaching and research positions at the St. Louis and Columbia campuses of the University of Missouri and was a visiting scholar at the Federal Reserve Bank of Kansas City, Mo. She has three degrees in agricultural economics — a bachelor's in 1982 from Oregon State University in Corvallis, a master's in 1984 from the University of Arizona at Tucson and a doctorate in 1988 from the University of Wisconsin at Madison. Her research interests include regional and urban economic development, labor markets and social welfare policy.

**Larry A. Taber, Ph.D.**, professor of biomedical engineering in the School of Engineering and Applied Sciences, arrives from the University of Rochester (N.Y.) Department of Mechanical Engineering. He had been on the faculty there since 1982, and also held appointments from 1990-96 with the Department of Pediatrics at the University of Rochester School of Medicine. His specialties are biomechanics and the mechanisms of cardiac development. He received a bachelor's degree, with highest honors, in aerospace engineering in 1974 from the Georgia Institute of Technology in Atlanta and a master's degree and doctorate in aeronautics and astronautics in 1975 and 1979, respectively, from Stanford University.

**Erik Trinkaus, Ph.D.**, professor of anthropology in Arts and Sciences, comes from the University of New Mexico in Albuquerque, where he held the same title. His research focuses on understanding the evolutionary background to recent human biological and cultural diversity and the evolutionary patterns of the genus *Homo*. He received a bachelor's degree in 1970 from the University of Wisconsin in Madison. He earned both a master's degree and a doctorate in 1973 and 1975, respectively, from the University of Pennsylvania in Philadelphia.

## For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

### Of note

A one-act bagatelle-opera by **Harold Blumenfeld**, professor emeritus of music in Arts and Sciences, titled "Breakfast Waltzes," received its professional premiere on July 12 as part of the Des Moines Metro Opera's Summer Festival. It was selected from among 60 submitted works. ...

**Dennis W. Choi, M.D., Ph.D.**, the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the Department of Neurology, has received a \$1,303,800 five-year grant from the National Institute of Neurological Disorders and Stroke for a project titled "Nervous System Development and Injury." ...

**Anne H. Cross, M.D.**, assistant professor of neurology, has received a \$308,104 three-year grant from the National Multiple Sclerosis Society for a project titled "Effects of Peroxynitrite and Nitric Oxide on Glial Cells and Myelin Membrane." ...

Barnes-Jewish Hospital recently honored two physicians who have accumulated a combined total of more than 100 years of service to the hospital. **I. Jerome Flance, M.D.**, professor of clinical medicine, and **Michael M. Karl, M.D.**, professor of clinical medicine, were presented with portraits at a May ceremony in the Queeny Tower restaurant. The portraits of the physicians, by St. Louis artist Gilbert Early, now hang in the first-floor corridor of the Queeny Tower building. ...

**Oliver W. Siebert**, affiliate professor of chemical engineering, recently was named a fellow of the American Institute of Chemical Engineers (AIChE). Recognizing outstanding contributions both to the profession and to the institute, fellow status in the AIChE is one of the highest honors that can be conferred on a chemical engineer. Siebert is a world-renowned materials engineering expert and a specialist in the field of corrosion engineering and failure analysis.

### On assignment

**Stephen H. Legomsky, J.D., D.Phil.**, the Charles F. Nagel Professor of International Law, spent the spring 1997 semester as a Parsons Visiting Scholar at the University of Sydney in Australia. During that time, he spoke on a variety of immigration, administrative law, and constitutional law subjects at a refugee conference at Northern Territories University in Darwin, at the annual plenary session of the Australian Institute of Administrative Law in Canberra, and to the law faculties of the University of Sydney, the University of Tasmania, the University of Melbourne, the University of Adelaide, the University of Western Australia and Murdoch University. ...

**Richard A. Watson, Ph.D.**, professor of philosophy in Arts and Sciences, was an invited guest at the Eighth Festival International du Livre, Étonnants Voyageurs in Sainte-Malo, France, last spring. Watson's novel, titled "Les Chutes du Niagara," Éditions Phébus (a translation of his book "Niagara" published by Coffee House Press), was a finalist for the Prix Astrolabe. While the book did not win the prize, its translator, Jacques

Chabert, received special felicitations of the jury for his translation. ...

Chancellor **Mark S. Wrighton** recently was elected to serve as vice president for Missourians for Higher Education.

### Speaking of

**John M. Kissane, M.D.**, professor of pathology and of pediatrics, delivered a paper titled "Medical Aspects of the Western Migration With Emphasis on 1847" and a medical critique of "Mountain Fever" at May's sesquicentennial meeting of the Mormon Trails Historical Society in Omaha. In June, he was a visiting pathologist at Patan Hospital in Nepal.

### To press

A book titled "Ancient Greek Science and Engineering," by **Andrew D. Dimarogonas, Ph.D.**, the William Palm Professor of Mechanical Design, recently was published jointly by the Patras University Press and the Hellenic Letters Publishers in Athens, Greece. The book is written in Greek and addresses the problem of the engineering science content of ancient Greek engineering and the experimental methods in ancient Greek science and engineering.

### Correction

An item in the Sept. 4 Record should have read, "A book by **Barbara Flagg, J.D.**, professor of law, titled 'Was Blind, But Now I See: White Race Consciousness and the Law,' is scheduled to be released in November by New York University Press." The Record ran the working title, which subsequently had changed.

## Steven J. Givens named assistant to the chancellor

**Steven J. Givens** has been appointed assistant to the chancellor, according to Chancellor Mark S. Wrighton. Givens succeeds Sara L. Johnson, who was appointed associate dean and academic coordinator in the College of Arts and Sciences.

In his new role, Givens will serve as a liaison to internal and external groups that include faculty, staff, students, alumni, parents and community leaders. He will deal with a wide range of concerns and issues, including complaint resolution, and will become an ex officio member of the University Council. He also will handle a variety of special projects assigned by the chancellor.

"I feel fortunate in being able to recruit Steve to work with me," Wrighton said. "He brings experiences that will serve me well, and I am looking forward to his contributions to the University. Steve has a great record of achievement in academic settings, and will bring unique talents to his position here."

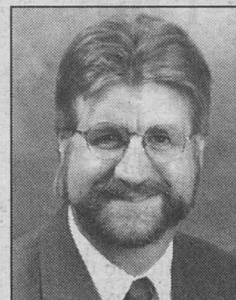
Prior to joining the chancellor's office

Sept. 8, Givens worked as a consulting publications editor and writer for several St. Louis educational institutions that included Washington University.

From 1992-94, he served as senior periodicals editor in Washington University's Office of Publications, where he was editor of the award-winning Washington University Magazine and Alumni News.

Givens operated his own communications agency from 1989 to 1992, providing publications management and public relations services to educational institutions and small businesses in the metropolitan area.

Previously, he spent five years at the University of Missouri-St. Louis (UMSL) in positions that included assis-



Steven J. Givens

tant director of university communications, senior information specialist and interim manager of alumni relations.

He has taught writing courses at the Beaconsfield (England) Adult Education Centre and is an adjunct instructor in the English department at UMSL.

In addition, Givens is the author of four children's books and co-author, with photographer Tom Ebenhoh, of "Arch Celebration," which marks the 25th anniversary of the construction of St. Louis' Gateway Arch.

Givens graduated magna cum laude with a bachelor of arts degree in English literature in 1985 from UMSL, where he also earned a master of education degree in 1992.

Givens served 10 years as executive director of the Catacombs Coffeehouse, a non-profit arts foundation that raised funds for local charities. He also has served on the board of the Marianist Retreat & Conference Center in St. Louis and is a lector and vocal soloist at St. Ferdinand Church in Florissant.

## Six faculty members named to South 40 interaction group

A half-dozen faculty members will be spending a good portion of their downtime on the south side of Forsyth Boulevard this year.

The six are taking part in the Faculty Associates program, a second-year effort that attempts to bridge the gap — and the perceived barriers — between faculty on the Hilltop Campus and students on the South 40.

The faculty members are paired with six freshman floors in Liggett and Koenig residence halls with one simple charge: interact. Last year, the Faculty Associates, working in step with resident advisers (RAs) of their respective floors, got together with students five or six times, on average. Given loose reins, some took a programmatic approach; others opted for a more social atmosphere. Most tried to combine elements of both.

This year's Faculty Associates and their assigned floors are:

- Elizabeth B. Allen, Ph.D., lecturer in romance languages and literatures in Arts and Sciences, Koenig 3;

- Marvin J. Cummins, Ph.D., associate professor of political science in Arts and Sciences, Liggett 1;

- Regina F. Frey, Ph.D., lecturer in chemistry in Arts and Sciences, Koenig 1;

- Gayle J. Fritz, Ph.D., associate professor of anthropology in Arts and Sciences, Liggett 2;

- Andrea J. Heugatter, lecturer in engineering and policy, Koenig 2; and

- John Stewart, director of vocal activities in music in Arts and Sciences, Liggett 3.

Both Cummins and Stewart were involved in last year's pilot endeavor. The other four are new to the program.

Also returning are James W. Davis, Ph.D., faculty coordinator for the program, professor of political science in Arts and Sciences and director of the Teaching Center, and George A. Rietz, the residential college director under whose jurisdiction Koenig and Liggett fall.

"I'm incredibly excited about the group of Faculty Associates that we've assembled," Rietz said. "The energy at

our first gathering was palpable, as was the interest level of the RAs. It's also an especially positive step that we have female faculty on board this year."

## Obituaries

### Leonard Keay, former microbiology researcher

**Leonard Keay, Ph.D.**, a faculty member in the School of Medicine from 1971 to 1980, died of a brain tumor Sept. 9, 1997, at his home in Edwardsville, Ill. He was 64.

Keay joined the University as a research assistant in the Department of Microbiology. From 1976 to 1980, he worked in the Department of Biochemistry as director of the tissue culture facility in the Cancer Research Center.



# Opportunities & personnel news

## Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at [cf6000.wustl.edu/hr/home](http://cf6000.wustl.edu/hr/home). If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at (314)935-9836. Staff members may call (314)935-5906.

**Communications Technician I 980074.** *Communications Services.* Requirements: high school education; training and/or experience in concepts of operation and maintenance of communications equipment; ability to detect and differentiate the telephone color code; ability to do strenuous work and heavy lifting; ability to work flexible hours and overtime; use of personal vehicle may be required (with mileage reimbursement); must possess and maintain a valid driver's license throughout employment. Position requires carrying a pager 24 hours a day, seven days a week for emergencies so that you may be contacted for specialized areas of expertise.

**Administrative Assistant 980075 (Part time).** *Business.* Requirements: some college, bachelor's degree preferred; excellent written communication skills and demonstrated writing experience; thorough knowledge of language and grammar; demonstrated organizational skills and ability to work with limited supervision; ability to prioritize projects; strong research capability; ability to handle detail-

oriented work on a continual basis; maturity, sound judgment and sensitivity in handling confidential data; previous knowledge of Washington University donors and special friends and understanding of the Olin School's organization, priorities and mission a plus.

**Administrative Aide 980076.** *Engineering Student Services.* Requirements: high school education, some college preferred; working knowledge of PC (Windows, word processing and database programs preferred); typing at 50 wpm; good communication skills; enjoy working directly with the public; service and detail oriented; ability to work in a busy office. Responsibilities include input, setup and career services, including files of prospective and current students; distributing master recruiting schedule to students/alumni; scheduling visits for corporate recruiters and compiling materials for interviews; typing and filing correspondence and reports; and assisting with major mailings.

**Senior Investment Analyst 980077.** *Investment Management.* Requirements: MBA with financial emphasis and four years experience in investment management, investment manager performance evaluation and investment management of life income trusts; self-motivated individual who is resourceful and analytical; ability to think strategically to evaluate policies and procedures and to resolve problems; and in-depth understanding of financial instruments and markets.

**Computer Systems Administration 980079.** *CAIT.* Requirements: bachelor's degree; high level of skill in debugging and troubleshooting system set up and software installation problems; experience with DOS, Windows 95, NT and

network; knowledge of UNIX, Netscape HTML and Java or C highly desired; punctual; organized; good work ethic; and demonstrate effective interpersonal communications skills.

**Receptionist/Secretary 980080.** *Student Activities.* Requirements: high school degree or equivalent, one to two years college preferred; experience with PCs and word processing; cheerful and courteous disposition; flexibility; attentive to detail; ability to work accurately on numerous tasks with interruptions; and enjoy working with undergraduate and graduate students, as well as office personnel. Responsibilities include performing receptionist and secretarial duties for the Office of Student Activities, Student Union and staff members in the Ann W. Olin Women's Building.

**Apartment Referral Service Coordinator 980085.** *Apartment Referral Services.* Requirements: high school diploma and one year apartment management operations experience or associate's degree in business or real estate, bachelor's degree in business or real estate preferred; personal computer knowledge; ability to work with Microsoft Word, Microsoft Access, Lotus spreadsheet, etc.; self-motivated; clear telephone voice; personable; friendly; and ability to work well with students. Position is supervised by the associate director of off-campus housing on a daily basis and by the director overall. Responsibilities include some independent thinking and decision making that can have a financial effect on the department budget and supervising student workers assisting with the operation of the apartment referral service office.

## Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in submitting transfer requests should contact the Human Resources Department of the medical school at (314) 362-7196 to request applications. External candidates may call (314) 362-7195 for information regarding application procedures or may submit résumés to the human resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than human resources. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

**Clinic Administrator 980083.** Requirements: bachelor's degree, master's degree highly preferred in accounting, finance or health administration; five years ac-

counting or relevant experience; previous supervisory experience of professional staff; excellent oral and written communication skills; superior analytical thinking and problem-solving ability; and a high level of professionalism in order to work with different personality styles. Responsibilities include management responsibility for divisional finances, clinical practice; development and strategic planning; managing divisional accounts; preparing budget; financial planning; reporting financial data; variance analysis; practice management; additional accounting oversight responsibility for grants administration, clinical trials, industry sponsored projects and endowment funds; and involvement with recruiting, hiring, mentoring and evaluating support staff.

**Statistical Data Analyst 971250.** Requirements: bachelor's degree, master's degree preferred in statistics, computer science or related field; experience, preferably in biomedical and/or clinical studies; SAS experience and proficiency with data analysis and/or data management; PC/UNIX knowledge; writing skills for re-

port generation; and exceptional organizational and communication skills. Responsibilities include: performing data management and/or data analysis for research investigators using statistical packages SAS; designing experiments, clinical trials and epidemiological studies for research investigators; database design; implementation and maintenance of data collected for research purposes (including acquisition, editing and reporting); providing statistical consulting, primarily in collaborative studies involving the medical school community; and assisting in the design and development of data entry systems for research data entry.

**Technologist 980203.** Requirements: bachelor's degree in biology, chemistry or related discipline; experience with protein purification; excellent biochemical technical ability; working knowledge of computers. Responsibilities include providing technical support in biochemistry and molecular biology experiments; protein purification; enzyme assays; cloning; gene expression; and tissue culture.

## 1997 tax bill spells r-e-l-i-e-f for families who can work the options

Now that the Taxpayer Relief Act of 1997 has been signed, sealed and delivered to the American people, families and students are struggling to decipher it. Just how the tax bill might enhance their educational opportunities while keeping their finances in check continues to be debated.

Among the educational provisions are the HOPE Scholarship, which provides an income tax credit for tuition paid up to \$1,500 for the first two years of college, and the Lifetime Learning Credit. The latter, a 20 percent tax credit for tuition paid up to \$5,000, is designated for any post-secondary education and training.

Another provision hailed by proponents of higher education includes restoration of student loan interest deductions. It allows taxpayers to enter an above-the-line deduction for interest paid in the first 60 months of repayment on private or government-backed loans for post-secondary education and training expenses.

The mix of tax credits, deductions and savings incentives that impact higher education also includes the following:

- education IRA accounts with \$500 per year accumulating tax free with no penalty upon withdrawal;
- penalty-free IRA withdrawals for higher education expenses;
- employer-provided education benefit that allows workers taking undergraduate courses to exclude from taxable income the first \$5,250 in education costs;
- community service loan forgiveness now extended to nonprofit tax-exempt charitable or educational institutions; and
- repeal of the \$150 million cap on tax-exempt bonds issued by colleges and universities to finance new capital.

One provision in the proposed tax bill that caused considerable anxiety on campuses — taxing tuition waivers as

ordinary income for graduate students and university employees — was eliminated in the final tax bill signed by President Bill Clinton.

The provision to eliminate the tax-exempt status of the Teachers Insurance and Annuity Association-College Retirement Equities Fund's (TIAA-CREF) pension reserve account was signed into law.

How will the bulk of these laws bode for Washington University students and their families?

"The savings result in more available income for those families producing a larger expected family contribution," said William Witbrodt, director of Student Financial Services. "Because the provisions offer the incentive to save for education and the flexibility to use assets not previously available for education purposes, there may be less need to borrow when tuition and related expenses are due."

Nevertheless, borrower and buyer beware. Economists and tax specialists urge closer inspection of the laws, which reveal a variety pack of income caps, scattered dates of enactment and assorted stipulations that might limit benefits.

The use of one provision — a withdrawal from an IRA, for example — might cancel out the benefit of another, such as a Hope scholarship credit.

For these reasons, "a family should consider the financial impact of each program before deciding on which one to use," advised Witbrodt.

Touted as the biggest educational package since the GI Bill, the new law is projected to benefit 12.9 million students, according to the U.S. Department of Education. Like a good game of Scrabble, the bill's wording must be scrutinized, however, and all of the points carefully added up before a winner can be determined.

## International Office seeks volunteers

Inspired by world events to reach out and become an active part of the global community? Interested in learning more about other cultures — and, in the process, perhaps more about your own?

If so, the International Office at Washington University is looking for you. The office is seeking volunteers to participate in a pair of community-connections programs that promote international friendships and further cross-cultural awareness.

The "Host Family Program" is designed to advance cultural exchange between international students and local volunteers. As part of the program, volunteers invite students to share in family celebrations, sports or cultural events at least once a month. Host families include single adults, single parents, retirees and families with or without children.

Host families do not provide living accommodations for the students but do help temper the loneliness students face

living and studying far from home. They also provide a firsthand view of life in the United States.

The "Speak English With Us Program" matches community volunteers with international students, faculty and researchers from both the Hilltop and Medical campuses who want to improve their understanding of the English language and culture.

Although courses such as English as a Second Language are available to members of the international community, many have an additional desire for opportunities to improve their practical, everyday English. They also enjoy engaging in conversation with local people, exchanging ideas and learning about life in the United States and in the St. Louis area.

Volunteers in this program meet with participants at a mutually convenient time and place, usually once a week for about an hour. Volunteers are not required to be trained teachers or have any special language skills.

For information, call (314) 935-5910.

## Research has policy implications —from page 1

families and the economy."

Based on the need to better understand the connections between families, labor markets and the economy as a whole, the network will work to develop a new paradigm of family studies. It will have an impact on the way social scientists think about the relationship between families and the economy.

"Many children and adults are unable to reach their full potential because they are operating in two systems that are at least somewhat at odds — the traditional family and the modern economy," Pollak added. "A better understanding of how these systems interact, on both the micro and macro level, could have enormous practical consequences."

Folbre explains, "There are some worrisome trends, such as high levels of poverty among mothers and children and a virtual absence of leisure for family members trying to balance paid work with family care."

Virtually all proposed research will have important policy implications. Possible research projects could revolve around questions such as how children's success is affected by the way they and their parents spend time, how child-support enforcement affects family dynamics and how various kinds of public assistance affect family well-being. Issues for long-term exploration could include how families and communities contribute to the development of

human capabilities, how family members negotiate their differences and how unpaid work, both at home and in the community, contributes to economic growth and well-being.

During the grant's 18-month term, network members will hold five meetings as part of their individual and collaborative research. In addition, the network will co-sponsor a conference in Washington, D.C., with the Bureau of Labor Statistics. A wide array of scholars, including international scholars, graduate students and younger scholars whose interests and abilities fit the network's research agenda, will be invited to the meetings and conference. The grant will cover the network's operational expenses, including honoraria, travel and administrative expenses. By July 1, 1998, the network expects to have working papers on selected topics and a detailed proposal for an ongoing research network.

"We're very pleased to support this new research network," said Adele Simmons, president of the MacArthur Foundation. "Its focus on how families make decisions about investments in their children and how public policies affect those decisions is extremely important. This research will produce new knowledge about these issues."

The foundation is a private, independent grant-making institution in Chicago. Each year, it gives grants totaling more than \$140 million.